

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of

Applicant(s) : Kenichiro Hasumi et al.
Application No. : 10/738,259
Filed : February 2, 2004
Title : Human Lymphocyte Vaccine Adjuvant
Examiner : Louise Wang Zhiying Humphrey
Art Unit : 1648
Attorney Docket: 075303.00002

DECLARATION UNDER 37 C.F.R. § 1.132

I, Dean LeMar Mann, M.D., declare as follows:

1. I am one of the named inventors of the invention described and claimed in the above-identified patent application.
2. I am a citizen of the United States and reside at 10533 Tuckerman Heights Circle, Rockville, Maryland 20852. Information regarding my educational training and employment history is detailed in a copy of my curriculum vitae, which is attached hereto as Exhibit A.
3. I have read and am thoroughly familiar with the contents of the above-identified patent application, the contents of the Office Action dated December 10, 2008, as well as the references cited therein. It is my well-considered opinion that none of the references cited in the Office Action teaches or suggests, when viewed alone or in combination, the unexpected finding of the claimed invention that administering to a mammal an antigen and culture medium supernatant derived from peripheral blood mononuclear cells (PBMCs), which have been activated with anti-CD3- and anti-CD28-coated beads in the culture medium, enhances the immune response to the antigen in the mammal.
4. The surprising finding that supernatant derived from activated PBMCs, which contains culture products such as cytokines and chemokines, augments the immune response to an antigen *in vivo* was observed during clinical trials that were conducted on patients receiving bone marrow transplants. In these trials, anti-CD3/anti-CD28 activated T cells were infused into the patients to see if the activated T cells would enhance a patient's response to an antigen. We found that a patient's immune response to an antigen was augmented, but could not identify antigen-specific memory T cells in the infused cell

population. We subsequently found that the products released from the activated T cells could account for the enhanced immune response to an antigen in the patient. We then conducted studies on rhesus monkeys, in which we administered supernatant containing culture products derived from anti-CD3/anti-CD28 activated PBMCs in combination with standard vaccines and showed an enhancement of the immune response to the vaccines.

5. To the best of my knowledge, I am not aware of research studies or publications by other investigators which show that products of PBMCs activated by anti-CD3/anti-CD28 enhance immune responses when administered as an adjuvant to an antigen.

6. I declare further that all statements made herein of my own knowledge are true and that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application and any patent issuing thereon.



Dean LeMar Mann, M.D.

06/03/09

(DATE)

Curriculum Vitae

Dean L. Mann, M.D.
Professor and Head, Division of Immunogenetics
University of Maryland, School of Medicine

Date September 17, 2008

Personal Information

Business Address Division of Immunogenetics
Department of Pathology
University of Maryland, School of Medicine, and

Program in Oncology
The University of Maryland
Marlene and Stewart Greenebaum Cancer Center

Office Address University of Maryland Medical System
Department of Pathology, Division of Immunogenetics
22 S. Greene Street
Baltimore, MD 21201

Phone Number (410) 328-5512

Education

1956	B.A.	Science	Goshen College, Goshen, Indiana
1963	M.D.		St. Louis University School of Medicine St. Louis, MO

Internship (medical)

1963-1964	St. Louis University Hospital St. Louis, MO
-----------	--

Residency

1964-1966	Assistant Resident, St. Louis University Hospital St. Louis, MO
-----------	--

Fellowships

1966-1968	NIH Postdoctoral Fellowship in Immunology
-----------	---

Medical Licensures

Virginia

Maryland (Active); #D0050237

Major Research

Interests

Immunogenetics; cell surface antigens; structure/function of major histocompatibility gene products. Immunobiology of AIDS and cancer.

Employment History

- 1968-1983 Medical Officer, NIH, NCI, Division of Cancer Biology and Diagnosis, Bethesda, MD
- 1983-1987 Medical Officer, NIH, NCI, Division of Cancer Etiology, Laboratory of Human Carcinogenesis, Bethesda, MD
- 1984-1987 Head, Biochemical Epidemiology Section, Laboratory of Human Carcinogenesis, Bethesda, MD
- 1987-1996 Chief, Immunogenetics Section, Laboratory of Viral Carcinogenesis, DBS, NCI-FCRDC, Frederick, MD
- 1996-present Professor, Department of Pathology, University of Maryland, Baltimore, School of Medicine

Major Academic Tasks

- 1996-2005 Associate Director, American Red Cross National Histocompatibility Testing Laboratory of the University of Maryland
- 1996-present Head, Division of Immunogenetics, Department of Pathology, University of Maryland, Baltimore, School of Medicine. The Division has a clinical laboratory that provides histocompatibility testing for transplant services at the University Hospital.

Professional Memberships

American Association for Histocompatibility and Immunogenetics
American Federation for Clinical Research
American Association of Immunologists
Transplantation Society
American Society for Clinical Investigation

Honors, Awards

Alpha Omega Alpha
Distinguished Visiting Professor, University of Vienna,
School of Medicine, Vienna, Austria

Administrative Service

Institutional Service

Member, External Advisory Board, Myeloma Institute for Research and Therapy, University of Arkansas, School of Medicine

National Service

Member, NIAID Vaccine Study Section

Editorial Boards

Reviewer:

1985-present	AIDS
"	Blood
"	Clinical Immunology and Immunopathology
"	Journal of AIDS
"	Journal of AIDS and Human Retrovirology
"	Journal of Immunology
"	Nature Medicine
"	Science
"	Journal of Infectious Disease
"	Immunology and Immunopathology
"	Carcinogenesis
2001-present	Immuno-genetics
"	Human Immunology
2002-present	PNAS

Teaching Responsibilities

2005 Currently mentoring 3 graduate students and 1 post-doctoral fellow in my research laboratory and serving on thesis committees of 3 additional graduate students. One 1st year resident rotated through the lab for several months during 2004.

Grant Support

Active

05/15/03-04/30/08	Principal Investigator: Dean L. Mann, MD (20%) 5U01-AI054641-05, The Dow Chemical Co./NIAID "Non-invasive Plant Virus-particle Based Anthrax Vaccines" Annual Direct Costs: \$385,523 Total Direct Costs: \$1,498,371
11/17/03-06/30/08	Principal Investigator: Dean L. Mann, MD (20%) Hasumi International Research Foundation "Development of Dendritic Cell Based Vaccines for Cancer Immunotherapy" Annual Direct Costs: \$152,409 Total Direct Costs: \$1,230,203

05/01/03-06/30/08	Co-investigator: Dean L. Mann, MD (10%) Principal Investigator: Dr. Thomas MacVittie U. S. Department of the Interior, Navy "Adult Bone Marrow Stem Cell Research" Annual Direct Costs: \$350,000
09/01/07-02/28/09	Co-investigator: Dean L. Mann, MD (10%) Principal Investigator: Dr. Shea-Donohue NIH/NIAID, 1RC1AI078520-01 "Novel Therapy for Post-irradiation Insult to Gut Mucosa in Non-Human Primates" Annual Direct Costs: \$468,674
04/01/08-03/31/11	Collaborator: Dean L. Mann, MD (1%) Principal Investigator: Dr. Alessio Fasano NIH/National Center for Complementary and Alternative Medicine 1R21AT004089-01A1 "VSL for Asthma" Annual Direct Costs: \$261,300 Total Direct Costs: \$597,600

Pending

07/01/08-06/30/13	Collaborator: Dean L. Mann, MD (5%) Principal Investigator: Dr. Alessio Fasano NIH "Protease Functions in Intestinal Mucosal Pathobiology" Annual Direct Costs: \$991,029
07/01/08-06/30/13	Co-investigator: Dean L. Mann, MD (5%) Principal Investigator: Dr. Alessio Fasano NIH "Predictors of NEC and Host Responses in the Developing Premature Infant" Annual Direct Costs: \$447,279
07/01/08-06/30/10	Mentor: Dean L. Mann, MD (2.5%) Principal Investigator: Dr. Kim Hankey Mary Kay Ash Foundation "Ex Vivo Expanded NK and NKT Cells for Cancer Immunotherapy" Annual Direct Costs: \$43,263
09/01/08-08/31/09	Faculty: Dean L. Mann, MD (5%) Principal Investigator: Dr. Kim Hankey Department of Defense Breast Cancer Research Program Annual Direct Costs: \$73,824
11/1/08-10/31/13	Principal Investigator: Dean L. Mann, MD (20%) NIH "Interactive Genetic and Etiologic Factors in Innate Immunity in Celiac Disease" Annual Direct Costs: \$25,000

Completed Research Support

09/01/97-08/31/00	Co-investigator: Dean L. Mann, MD (5%) Principal Investigator: Dr. Kaslow #1R01A141951-01/NIH/NIAID (Univ Alabama at Birmingham) Subcontract "Genetic Factors in the Epidemiology of HIV-1 Infection" Annual Direct Costs: \$42,089
07/01/98-12/31/01	Principal Investigator: Dean L. Mann, MD (15%) DAMD17-98-1-8466/ USMRMC "Prostate Tumor Antigen Discovery: Development of a Novel Genetic Approach" Annual Direct Costs: \$125,000
3/1/02-2/28/03	Investigator: Dean L. Mann, MD (5%) Principal Investigator: Dr. Karp SU01-CA-069854-08/ NCI, NIH "Phase I Trials of Anti-cancer Agents" Annual Direct Costs: \$399,076
8/1/99-7/31/03	Principal Investigator: Dean L. Mann, MD (15%) 5-R24-CA82888-03/ NCI, NIH "Flow Cytometry Applications in Cancer Biology" Annual Direct Costs: \$150,000
9/1/00-8/31/03	Co-PI: Dean L. Mann, MD (10%) Principal Investigator: N. DeClaris, Ph.D. 1-R01-GM58721-01A2/ NIH (U of Texas, M.D. Anderson Cancer Center (Subcontract)) "Robust Generalization in MHC Peptide Binding Models" Annual Direct Costs: \$102,038
7/1/02-6/30/04	Principal Investigator: Dean L. Mann, MD (15%) Hasumi International Research Foundation "Development of Dendritic Cell-Based Vaccines for Cancer Immunotherapy" Annual Direct Costs: \$183,128
6/1/05-4/30/06	Principal Investigator: Dean L. Mann, MD (%) SU01-AI054641-02, The Dow Chemical Co./NIAID "Non-invasive Plant Virus-particle Based Anthrax Vaccines" Total Direct Costs: \$94,207 (Supplement)
9/1/06-12/31/06	Principal Investigator: Dean L. Mann, MD (%) Fraunhofer USA/ DOD "Targets of the Immune Response Vaccines to Combat Infectious Pathogens" Supplement Total Direct Costs: \$25,589
10/2/00-present	Principal Investigator: Dean L. Mann, MD AP Intramural "Determination of the Role of MICA, MICB in Allograft Rejection" Total Direct Costs: \$9,550.00

11/17/03-6/30/06	Principal Investigator: Dean L. Mann, MD (10%) Hasumi International Research Foundation "Development of Dendritic Cell Based Vaccines for Cancer Immunotherapy" Total Direct Costs: \$397,261
8/5/04-7/31/07	Co-P.I.: Dean L. Mann, MD (15%) Principal Investigator: Aaron Rapoport, MD 5R21CA101356-02, NIH/NCI "Immune Responses to T cell Expansion + PCV Immunization" Total Direct Costs: \$225,000
2/1/06-7/31/06	Principal Investigator: Dean L. Mann, MD TEDCO/MTTF Agreement with Promogen, Inc. & TEDCO/MTTF Total Direct Costs: \$5,387
9/1/04-8/31/06	Principal Investigator: Dean L. Mann, MD (3%) Fraunhofer USA/DOD "Targets of the Immune Response Vaccines to Combat Infectious Pathogens" Total Direct Costs: \$269,360
8/15/05-1/31/07	Co-investigator: Dean L. Mann, MD (3%) Principal Investigator: Thomas MacVittie, PhD IR01A1067503-01, NIH/NIAID "Immune Reconstitution in Nonhuman Primates" Annual Direct Costs: \$175,090
3/1/03-2/28/07	Co-investigator: Dean L. Mann, MD (5%) Principal Investigator: Jeffrey Hasday, MD 5R01HL069057-05A1, NIH/NHLBI "Mechanisms of Fever-Enhanced Hyperoxic Lung Injury" Annual Direct Costs: \$250,000 Total Direct Costs: \$1,250,000
4/1/06-3/31/07	Dean L. Mann, MD (2%) Principal Investigator: Scott Strome, MD 5R01DE015324-04/ NIH/NIDCR "MAGE-A3/HPV 16 Peptide Vaccines for Head and Neck Cancer" Annual Direct Costs: \$250,000
8/1/06-7/31/07	Principal Investigator University: Dean L. Mann, MD (4%) Principal Investigator Company: Hahn, Sung Ho M.D. - Promogen, Inc. Maryland Industrial Partnerships (MIPS) "Construction of Synthetic Gene Promoters" Annual Direct Costs: \$52,376

Publications

Peer-reviewed Journal Articles

1. Mann, D.L., Sites, M.L., Donati, R.M., & Gallagher, N.I. Erythropoietic stimulating activity during the first ninety days of life. *Proceedings of the Society for Experimental Biology and Medicine*, 118: 212-217, 1965.
2. Mann, D.L., Donati, R.M., & Gallagher, N.I. Erythropoietin assay and ferrokinetic measurements in anemic uremic patients. *JAMA*, 194: 1321-1324, 1965.
3. Mann, D.L., Donati, R.M., & Gallagher, N.I. Effect of renin, angiotensin II and aldosterone on erythropoiesis. *Proceedings of the Society for Experimental Biology and Medicine*, 121: 1152-1157, 1966.
4. Mann, D.L., Gallagher, N.I., & Donati, R.M. Erythrocytosis and primary aldosteronism. *Annals of Internal Medicine*, 66: 335-339, 1967.
5. Mann, D.L., Donati, R.M., & Gallagher, N.I. Relationship of renal mass to erythropoietin production. *Laboratory Investigation*, 19: 406-411, 1968.
6. Mann, D.L., Rogentine, G.N. Jr., Fahey, J.L., & Nathenson, S.G. Solubilization of human leukocyte membrane isoantigens. *Nature*, 217: 1180-1181, 1968.
7. Mann, D.L., Granger, H., & Fahey, J.L. Use of insoluble antibody for the determination of small amounts of immunoglobulins. *Journal of Immunology*, 102: 618-624, 1969.
8. Mann, D.L., Rogentine, G.N. Jr., Fahey, J.L., & Nathenson, S.G., Solubilization, properties and molecular separation of HL-A alloantigens. *Transplantation Proceedings*, 1: 494-497, 1969.
9. Mann, D.L., Rogentine, G.N. Jr., Fahey, J.L., & Nathenson, S.G. Molecular heterogeneity of human lymphoid (HL-A) alloantigens. *Science*, 163: 1460-1462, 1969.
10. Mann, D.L., Rogentine, G.N. Jr., Fahey, J.L., & Nathenson, S.G. Human lymphocyte membrane (HL-A) alloantigens: Isolation, purification and properties. *Journal of Immunology*, 103: 282-292, 1969.
11. Fahey, J.L., Mann, D.L., Asofsky, R., & Rogentine, G.N. Jr. Recent progress in human transplantation immunology. *Annals of Internal Medicine*, 71: 1177-1195, 1969.
12. Mann, D.L. & Nathenson, S.G. Comparisons of soluble human and mouse transplantation antigens. *Proceedings of the National Academy of Sciences USA*, 64: 1380-1387, 1969.
13. Mann, D.L., Fahey, J.L., & Nathenson, S.G. Molecular comparisons of papain solubilized H-2 and HL-A alloantigens. *Histocompatibility Testing*. Copenhagen, Munksgaard, pp. 461-467, 1970.
14. Graff, R.G., Mann, D.L., & Nathenson, S.G. Immunogenic properties of papain-solubilized H-2 alloantigens. *Transplantation*, 10: 59-64, 1970.
15. Nathenson, S.G., Shimada, A., Yamane, K., Maramatsu, T., Cullen, S., Mann, D.L., Fahey, J.L., & Graff, R.G. Biochemical properties of papain solubilized murine and human histocompatibility alloantigens. *Federation Proceedings*, 29: 2026-2033, 1970.

16. Leventhal, B.G., Rogentine, G.N. Jr., & Mann, D.L. Sensitization to water soluble transplantation antigens. *Transplantation*, 3: 243-245, 1971.
17. Mann, D.L. & Fahey, J.L. Properties of HL-A alloantigens solubilized by chemical techniques. *Transplantation Proceedings*, 3: 234-237, 1971.
18. Rosenberg, E.B., Mann, D.L., Hill, J.J., & Fahey, J.L. Prolonged allograft survival in mice pretreated with soluble transplantation antigens. *Transplantation*, 12: 402-405, 1971.
19. Merritt, C.B., Mann, D.L., & Rogentine, G.N. Jr. Cytotoxic antibody in human graft versus host disease. *Nature*, 232: 638-641, 1971.
20. Mann, D.L. & Fahey, J.L. Transplantation antigens. *Annual Review of Microbiology*, 25: 679-710, 1971.
21. Einstein, A.B., Mann, D.L., Gordon, H.G., Trapani, R.J., & Fahey, J. Heterologous antisera against specific HL-A alloantigens. *Transplantation*, 12: 299-304, 1971.
22. Einstein, A.B., Mann, D.L., Gordon, H.G., & Fahey, J.L. The immune reactivity of heterologous antisera against solubilized lymphoid cell membrane component. *Tissue Antigens*, 1: 209-218, 1971.
23. Einstein, A.B., Mann, D.L., Ficker, S., & Terry, W.D. Antiserum to soluble lymphoid membrane preparation stimulates human leukocyte DNA synthesis. *Journal of Immunology*, 107: 1205-1208, 1971.
24. Whisnant, J., Mann, D.L., Rogentine, G.N. Jr., & Robbins, J. Human cell surface structures related to haemophilus influenzae type B disease. *Lancet*, 2: 895-898, 1971.
25. Mann, D.L., Halterman, R., Rogentine, G.N. Jr., & Leventhal, B. Detection of an acute leukemia associated antigen. *Science*, 174: 1136-1137, 1971.
26. Mann, D.L. Effect of enzyme inhibition on the solubilization of HL-A antigen with 3M KCl. *Transplantation*, 14: 398-401, 1972.
27. Amos, B.D., Bodmer, W.F., Ceppellini, R., Condliffe, P.G., Dausett, J., Fahey, J.L., Goodman, H.C., Klein, G., Klein, J., Lilly, F., Mann, D.L., McDevitt, H., Nathanson, S., Palm, J., Reisfeld, R.A., Rogentine, G.N., Sanderson, A.R., Shreffler, D.C., Simonsen, M., & van Rood, J.J. Biologic significance of histocompatibility antigens. *Federation Proceedings*, 31: 1087-1104, 1972.
28. Halterman, R., Leventhal, B.G., & Mann, D.L. An acute leukemia associated antigen: Clinical correlation. *New England Journal of Medicine*, 287: 1272-1274, 1972.
29. Gavin, J.R., Mann, D.L., Buell, D.N., & Roth, J. Preparation of solubilized insulin receptors from human lymphocytes. *Biochemical and Biophysical Research Communication*, 49: 870-876, 1972.
30. Mann, D.L., Halterman, R., & Leventhal, B.G. Cross reactive antigens on human cells infected with Rauscher leukemia virus and on human acute leukemia cells. *Proceedings of the National Academy of Sciences*, 70: 495-497, 1973.
31. Yust, I., Wunderlich, J.R., Mann, D.L., & Buell, D.N. Cytotoxicity mediated by human lymphocyte dependent antibody in a rapid assay with adherent target cells. *Journal of Immunology*, 110: 1672-1681, 1973.

32. Mann, D.L., Halterman, R., & Leventhal, B. Acute leukemia associated antigens. *Cancer*, 34: 1446-1451, 1974.
33. Springer, T.A., Strominger, J.L., & Mann, D.L. Partial purification of detergent soluble HL-A antigen and its cleavage by papain. *Proceedings of the National Academy of Sciences USA*, 71: 1539-1543, 1974.
34. Yust, I., Wunderlich, J.R., Mann, D.L., & Terry, W.D. Identification of lymphocyte dependent antibody in sera from multiply transfused patients. *Transplantation*, 18: 99-107, 1974.
35. Yust, I., Wunderlich, J., Mann, D.L., Leventhal, B., Yankee, R., & Graw, R. Human lymphocyte dependent antibody mediated cytotoxicity and direct lymphocyte cytotoxicity against non-HL-A antigens. *Nature*, 249: 263-265, 1974.
36. Strominger, J.L., Cresswell, P., Grey, H., Humphreys, R.H., Mann, D.L., McCune, J., Parham, P., Robb, R., Sanderson, A.R., Springer, T.A., Terhorst, C., & Turner, M.J. The immunoglobulin-like structure of human histocompatibility antigens. *Transplantation Reviews*, 21: 126-143, 1974.
37. Robb, R.J., Humphreys, R.E., Ruller, T.C., Mann, D.L., & Strominger, J.L. Rabbit antisera to papain-solubilized HL-A antigens. *Transplantation*, 19: 445-447, 1975.
38. Yust, I., Smith, R.W., Dickler, H.B., Wunderlich, J., & Mann, D.L. Human lymphocyte dependent antibody mediated cytotoxicity: Adherence of lymphocytes to antibody treated target cells. *Cellular Immunology*, 18: 176-186, 1975.
39. Mann, D.L. An approach to the development of antisera to tumor associated antigens: Experience with acute leukemia and melanoma. Monograph: Symposium on Immunologic Reactions to Melanoma Antigens. *Behring Institute Mitteilungen*, 56: 103-106, 1975.
40. Mann, D.L., Leventhal, B., & Halterman, R. Human antisera detecting leukemia associated antigens on autochthonous tumor cells. *Journal of the National Cancer Institute*, 54: 345-347, 1975.
41. MacDonald, J.S., Wunderlich, J.R., Yust, I., Mann, D.L., & Yankee, R.A. Complement-dependent and cell-dependent antiplatelet humoral antibody in sera from multiply transfused patients. *Clinical and Experimental Immunology*, 21: 259-266, 1975.
42. Miller, J.L., Mann, D.L., & Yust, I. Separation of complement dependent and lymphocyte dependent activity in human sera. *European Journal of Immunology*, 5: 546-548, 1975.
43. Mann, D.L., Abelson, L., Harris, S., & Amos, D.B. Detection of antigens specific for "B" lymphoid cultured cell lines with human alloantisera. *Journal of Experimental Medicine*, 142: 84-89, 1975.
44. Sacks, K.L., Olweny, C., Mann, D.L., Simon, R., Johnson, G.E., Poplack, D.G., & Leventhal, B.D. A clinical trial of chemotherapy and RAJI immunotherapy in advanced acute lymphatic leukemia (ALL): Clinical and laboratory observations. *Cancer Research*, 35: 3715-3720, 1975.
45. Mann, D.L., Abelson, L., Henkart, P., Harris, S.D., & Amos, D.B. Specific human B lymphocyte alloantigens (L-B) linked to HL-A. *Proceedings of the National Academy of Sciences*, 72: 5103-5106, 1975.
46. Pendergrass, T.W., Stoller, R.G., Mann, D.L., Halterman, R.H., & Fraumeni, J.F. Acute myelocytic leukemia and leukemia associated antigens in sisters. *Lancet*, ii: 429-431, 1975.

47. Turner, M.J., Cresswell, P., Parham, P., Strominger, J.L., & Mann, D.L. Purification of papain-solubilized histocompatibility antigens from a cultured human lymphoblastoid line, RPMI 4265. *Journal of Biological Chemistry*, 250: 4512-4519, 1975.
48. Mann, D.L., Abelson, L., Harris, S., & Amos, D.B. A second genetic locus within the HLA-A region for human B cell alloantigens. *Nature*, 259: 145-146, 1976.
49. Mann, D.L., Katz, S.I., Nelson, D.L., Abelson, L.D., & Strober, W. Specific B-cell antigens associated with gluten-sensitive enteropathy and dermatitis herpetiformis. *Lancet*, 1: 110-111, 1976.
50. Yust, I., Smith, R.W., Wunderlich, J.R., & Mann, D.L. Temporary inhibition of antibody-dependent, cell-mediated cytotoxicity by pretreatment of human attacking cells with ammonium chloride. *Journal of Immunology*, 116: 1170-1172, 1976.
51. Terhorst, C., Parham, P., Mann, D.L., & Strominger, J.L. Structure of HLA antigens: Amino acid and carbohydrate compositions and N-terminal sequences of four antigen preparations. *Proceedings of the National Academy of Sciences USA*, 73: 910-914, 1976.
52. Humphreys, R.E., McCune, J.M., Chess, L., Herrmann, H.C., Malenka, D., Mann, D.L., Parham, P., Schlossman, S.F., & Strominger, J.L. Isolation and immunologic characterization of a human, B-lymphocyte-specific cell surface antigen. *Journal of Experimental Medicine*, 144: 98-112, 1976.
53. Miller, J.L., Humphreys, R.E., & Mann, D.L. Lack of association of human "B cell" antigens and Fc receptor activity of antibody-dependent cytotoxic lymphocytes. *Journal of Immunology*, 117: 491-496, 1976.
54. Robb, R., Mann, D.L., & Strominger, J.L., Rapid purification of detergent-solubilized HLA antigens by affinity chromatography employing anti-2 microglobulin serum. *Journal of Biological Chemistry*, 251: 5427-5428, 1976.
55. Romano, P.J. & Mann, D.L. Specific MLC stimulation by cultured B cells. *Tissue Antigens*, 8: 9-12, 1976.
56. Nilsson, S., Schwartz, B., Waxdal, M., Green, I., Cullen, S., & Mann, D. A human alloantisera detects Ia-like molecules on chronic lymphocytic leukemia cells. *Journal of Immunology*, 118: 1271-1274, 1977.
57. Strominger, J.L., Mann, D.L., Parham, P., Robb, R., Springer, T., & Terhorst, C. Structure of HLA-A and HLA-B antigens isolated from cultured human lymphocytes. *Cold Spring Harbor Symposia on Quantitative Biology*, XLI: 323-329, 1977.
58. Springer, T.A., Kaufman, J.F., Giphart, M., Mann, D., Terhorst, C., & Strominger, J.L. Chemical and immunological characterization of HLA-linked B lymphocyte alloantigens. *Cold Spring Harbor Symposia on Quantitative Biology*, XLI: 387-396, 1977.
59. Mann, D.L. Human lymphocyte alloantigens: genetic control and relation to disease. *Clinics in Haematology*, 6: 331-354, 1977.
60. Springer, T.A., Mann, D.L., DeFranci, A.L., & Strominger, J.L. Detergent solubilization, purification, and separation of specificities of HLA antigens from a cultured human lymphoblastoid line, RPMI 4265. *Journal of Biological Chemistry*, 252: 2682-2693, 1977.

61. Nelson, D.L., Strober, W., Abelson, L.D., Bundy, B.M., & Mann, D.L. Distribution of alloantigens on human Fc receptor bearing lymphocytes: the presence of B-cell alloantigens in sig positive but not sig negative lymphocytes. *Journal of Immunology*, 118: 943-946, 1977.
62. Strong, D.M., Knudsen, B.B., Mann, D.L., & Sell, K.W. Frozen-thawed mononuclear cells as a source of B lymphocytes for antibody screening. *Tissue Antigens*, 10: 108-113, 1977.
63. Grier, J.G., Abelson, L.A., Mann, D.L., Amos, D.B., & Johnson, A.H.: Enrichment of B lymphocytes using goat anti-human F(ab)2. *Tissue Antigens*, 10: 236, 1977.
64. Springer, T.A., Kaufman, J.F., Siddoway, L.A., Mann, D.L., & Strominger, J.L. Purification of HLA-linked B lymphocyte alloantigens in immunologically active form by preparative sodium dodecyl sulfate gel electrophoresis and studies on their subunit association. *Journal of Biological Chemistry*, 252: 6201-6207, 1977.
65. Abelson, L.D. & Mann, D.L. Genetic control of B-cell alloantigens: Evidence for gene(s) linked to the HLA-A locus. *Tissue Antigens*, 11: 295-301, 1978.
66. Blattner, W.A., Naiman, J.L., Mann, D.L., Wimer, R.S., Dean, J.H., & Fraumeni, J.F. Immunogenetic determinants of familial acute lymphocytic leukemia. *Annals of Internal Medicine*, 89: 173-176, 1978.
67. Reinertsen, J., Klippel, J., Johnson, A., Steinberg, A., Decker, J., & Mann, D. B-lymphocyte alloantigens associated with systemic lupus erythematosus. *New England Journal of Medicine*, 299: 515-518, 1978.
68. Pena, A.S., Mann, D.L., Hague, N.E., Van Leeuwen, A., van Rood, J.J., & Strober, W. The genetic basis of gluten-sensitive enteropathy. *Gastroenterology*, 75: 230-238, 1978.
69. Moutsopoulos, H.M., Chused, T.M., Johnson, A.H., Knudsen, B., & Mann, D.L. B lymphocyte alloantigens in sicca syndrome. *Science*, 199: 1441-1442, 1978.
70. Stingl, G., Katz, S.I., Abelson, L.D. & Mann, D.L. Immunofluorescent detection of human B cell alloantigens on sig positive lymphocytes and epidermal langerhans cells. *Journal of Immunology*, 120: 661-664, 1978.
71. Mann, D.L., Knudsen, B.D., Yarbrow, G.C., & Leventhal, B.G. Human B cell antigens in acute lymphocytic leukemia. Lack of correlation with other lymphocyte cell surface markers. *Journal of National Cancer Institute*, 63: 49-53, 1979.
72. Mann, D.L., Kaufman, J., Orr, H., Robb, R., & Strominger, J. Serologic and structural studies of DR related antigens. *Transplantation Proceedings*, Vol. X: 668-673, 1979.
73. Nilsson, S.F., Edelson, R., Mann, D. L., Green, I., & Waxdal, M.J. Concanavalin A binding proteins on the surface of human malignant and normal lymphocytes. *Scandinavian Journal of Immunology*, 9: 483-492, 1979.
74. Moutsopoulos, H.M., Mann, D.L., Johnson, A.H., & Chused, T. Genetic differences between primary and secondary Sicca Syndrome. *New England Journal of Medicine*, 301: 761-763, 1979.
75. Dattner, A.M., Mann, D.L., & Levis, W.R. Studies on the contact sensitization of man with simple chemicals. V. Clonal priming allows direct *in vitro* assessment of autologous HLA-associated factors required for immune response (IR) in dinitrochlorobenzene. *Journal of Investigative Dermatology*, 73: 246-249, 1979.

76. Lunney, J.K., Mann, D.L., & Sachs, D.H. Sharing of Ia antigens between species. III. Ia specification shared between mice and human beings. *Scandinavian Journal of Immunology*, 10: 403-413, 1979.
77. Mann, D.L. & Sharrow, S.O. "B cell" alloantigens on T lymphocytes. *Transplantation Proceedings*, 11: 1774-177, 1979.
78. Strominger, J.L., Kabat, E.A., Bilofsky, H., Mann, D.L., Orr, H., Parham, P., Ploegh, H., Robb, R., Terhorse, C., & Wu, T.T. Structural homologies between HLA-A and HLA-B antigens and immunoglobulin. *Transplantation Proceedings*, 11: 1303, 1979.
79. Broder, S., Mann, D.L., & Waldmann, T.A. Participation of suppressor cells in the immunosuppressive activity of a heteroserum to human Ia-like antigens. *Journal of Experimental Medicine*, 151: 257-262, 1980.
80. Moutsopoulos, H.M., Chused, T.M., Mann, D.L., Klippel, J.H., Fauci, A.S., Frank, M.M., Lawley, T.J., & Hamberger, M.I. Sjogren's syndrome (Sicca syndrome): current issues. *Annals of Internal Medicine*, 92: 212-226, 1980.
81. Mann, D.L. & Muchmore, A. Inhibition of anti DRw sera reactivity with mono and oligo saccharides. *Journal of Immunology*, 124: 2218-2221, 1980.
82. Strominger, J.L., Orr, H.T., Parham, P., Ploegh, H.L., Mann, D.L., Bilofsky, H., Saroff, H.A., Wu, T.T., & Kabat, E.A. An evaluation of the significance of amino acid sequence homologies in human histocompatibility antigens (HLA-A and HLA-B) with immunoglobulins and other proteins, using relatively short sequences. *Scandinavian Journal of Immunology*, 11: 573-592, 1980.
83. Mann, D.L. & Abelson, L.A. Monocyte function in mixed lymphocyte reactions. *Cellular Immunology*, 56: 357-364, 1980.
84. Haynes, B.F., Mann, D.L., Hemler, M.E., Schroer, J.A., Shelhamer, J.H., Eisenbarth, G.S., Strominger, J.L., Thomas, C.A., Mostowski, H.S., & Fauci, A.S. Characterization of a monoclonal antibody which defines an immunoregulatory T cell subset for immunoglobulin synthesis in man. *Proceedings of the National Academy of Sciences*, 77: 2914-2918, 1980.
85. Mann, D.L. & Sharrow, S.O. HLA-DRw alloantigens can be detected on peripheral blood T lymphocytes. *Journal of Immunology*, 125: 1889-1896, 1980.
86. Murray, C., Nigra, T.P., Gerber, L.N., Barth, W., Perlmann, S., Decker, J., & Mann, D.L. HLA alloantigens in psoriasis and psoriatic arthritis. Evidence for the influence of multiple genes in the major histocompatibility complex. *Journal of Clinical Investigation*, 66: 670-675, 1980.
87. Blattner, W.A., Garber, G.E., Mann, D.L., McKean, E.A., Henson, R., McGuire, D.B., Fisher, W.B., Bauman, A.W., Golden, L.R., & Fraumeni, J.F. Waldenstrom's macroglobulin anemia and autoimmune disease in the family. *Annals of Internal Medicine*, 93: 830-832, 1980.
88. Haynes, B.F., Bunn, P., Mann, D.L., Thomas, C.A., Eisenbarth, G.S., Minna, J., & Fauci, A.S. Cell surface differentiation antigens of the malignant T cell in Sezary syndrome and mycosis fungoides. *Journal of Clinical Investigation*, 67: 523-530, 1981.
89. Haynes, B.F., Hemler, M., Cotner, T., Mann, D.L., Eisenbarth, G.S., Strominger, J.L., & Fauci, A.S. Characterization of a monoclonal antibody (5E9) which defines a human cell surface antigen

of activation. *Journal of Immunology*, 127: 347-351, 1981.

90. Haynes, B.F., Hemler, M.E., Mann, D.L., Eisenbarth, G.S., Shelhamer, J., Mostowski, H.S., Thomas, C.L., Strominger, J.L., & Fauci, A.S. Characterization of a monoclonal antibody (4F2) which binds to human monocytes and to a subset of activated lymphocytes. *Journal of Immunology*, 126: 1409-1414, 1981.
91. Shackelford, D.A., Mann, D.L., van Rood, J.J., Ferrara, G.B., & Strominger, J.L. Human B cell alloantigens DC1, MT1 and LB12 are identical to each other but distinct from the HLA-DR antigen. *Proceedings of National Academy of Sciences USA*, 78: 4566-4570, 1981.
92. Williams, R.C., Knowles, W.C., Butler, W.J., Pettitt, D.J., Lisse, J.R., Bennett, P.H., Mann, D.L., Johnson, A.H., & Terasaki, P.I. HLA-A2 and type 2 (insulin independent) diabetes mellitus in Pima Indians: an association with allele frequency. *Diabetologica*, 21: 460-463, 1981.
93. Chrousos, G.P., Loriaux, L., Mann, D.L., & Cutler, G. Late onset of 21-hydroxylase deficiency mimicking Idiopathic Hirsutism or polycystic disease: An allelic variant of congenital virilizing adrenal hyperplasia with a milder enzymatic defect. *Annals of Internal Medicine*, 96: 143-148, 1982.
94. Volkman, D.J., Mann, D.L., & Fauci, A.S. Association between Takayasu's arthritis and a B-cell alloantigen in North Americans. *New England Journal of Medicine*, 306: 464-465, 1982.
95. Goedert, J., Newland, C., Wallin, W. C., Green, M., Mann, D.L., Murray, C., Strong, D.M., Fraumeni, J., & Blattner, W. Amyl nitrate may alter T-lymphocytes in homosexual men. *Lancet*, 1: 412-416, 1982.
96. Lisse, J.R., Kuberski, T.T., Bennett, P.H., Knowler, W.C., Grofton, J.P., Colin, A., & Mann, D.L. High risk of sacroiliitis in HLA-B27 positive Pima Indian men. *Arthritis and Rheumatism*, 25: 236-238, 1982.
97. Karr, R.W., Kannapell, C.C., Stein, J.A., Gebel, H.M., Mann, D.L., Duquesnoy, R.J., Fuller, T.C., Rodey, G.E., & Schwartz, B.D. Molecular relationships of the human B cell alloantigens MT2, MB3, MT4, and DR5. *Journal of Immunology*, 128: 1809-1818, 1982.
98. Muchmore, A.V., Decker, J.M., & Mann, D.L. Evidence that antisera that react with products of the human HLA-DR locus may block *in vitro* antigen-induced proliferation by inducing suppression. *Journal of Immunology*, 128: 2063-2066, 1982.
99. Chrousos, G.P., Loriaux, L.D., Mann, D., & Cutler, G.B. Late onset of 21-hydroxylase deficiency in an allelic variant of congenital adrenal hyperplasia characterized by attenuated clinical expression and different HLA haplotype associations. *Hormone Research*, 16: 193-200, 1982.
100. Kahn, C.R., Mann, D., Rosenthal, A.S., Galloway, J.A., Johnson, A.H., & Mendell, N. The immune response to insulin in man: interaction of HLA alloantigens and the development of the immune response. *Diabetes*, 31: 716-723, 1982.
101. Gerber, L.A., Murray, C.L., Perlman, S.G., Barth, W.F., Decker, J.L., Nigra, T.A., & Mann, D.L. Human lymphocyte antigens characterizing psoriatic arthritis and its subtypes. *Journal of Rheumatology*, 9: 703-707, 1982.
102. Gallo, R.C., Mann, D.L., Broder, S., Ruscetti, F.W., Maeda, M., Kalyanaraman, U.S., Robert-Guroff, M., & Reitz, M.S. Human T cell leukemic-lymphoma virus (HTLV) in T- but not B- lymphocytes from a patient with cutaneous T-cell lymphoma. *Proceedings of the National*

Academy Sciences USA, 79: 5680-5683, 1982.

103. Reinertsen, J.L., Klippel, J.H., Johnson, A.H., Steinberg, A.D., Decker, J.L., & Mann, D.L. Family studies of B lymphocyte alloantigens in systemic lupus erythematosus. *Journal of Rheumatology*, 9: 253-262, 1982.
104. Karr, R.W., Kannapell, C.C., Stein, J.A., Fuller, T.C., Duquesnoy, R.-J., Rodey, G. E., Mann, D.L., Gebel, H. M., & Schwartz, B.D. Demonstration of a third structurally distinct human Ia beta chain by 2 dimensional gel electrophoresis. *Journal of Experimental Medicine*, 156: 652-657, 1982.
105. Nashef, D.J., Leonard, A., Mann, D.L., Gucicion, J.G., Katz, A.L., & Sliwinski, A.J. Analyzing spondylitis and systemic lupus erythematosus: a rare HLA combination. *Archives of Internal Medicine*, 142: 1227-1228, 1982.
106. Popovic, M., Sarin, P.S., Robert-Guroff, M., Kalyanaraman, U.S., Mann, D.L., Minowada, J., & Gallo, R.C. Isolation and transmission of human retrovirus (human T-cell leukemia virus). *Science*, 219: 856-859, 1983.
107. Mann, D.L. & Moutsopoulos, H.M. HLA DR alloantigens in different subsets of patients with Sjogren's syndrome and in family members. *Annals of the Rheumatic Disease*, 42: 533-536, 1983.
108. Mann, D.L., Popovic, M., Sarin, P., Murray, C., Strong, D.M., Haynes, B.F., & Gallo, R.G. Cell lines producing human T cell lymphoma virus (HTLV) have altered HLA expression. *Nature*, 305: 58-60, 1983.
109. Enroth, A.F., Mann, D.L., Johnson, A.H., Knowler, W.C., Pettitt, D.J., & Bennett, P.H., HLA and B-lymphocyte alloantigens in Gila River Indians. *Tissue Antigens*, 21: 198-207, 1983.
110. Mann, D.L., Haynes, B.F., Thomas, C., Cole, D., Fauci, A.S., & Poplack, D.G. Heterogeneity of cell surface markers on acute lymphocytic leukemia cells as detected by monoclonal antibodies. *Journal of National Cancer Institute*, 71: 11-17, 1983.
111. Mann, D.L., Popovic, M., Murray, C., Neuland, C., Strong, D.M., Sarin, P., Gallo, R.C., & Blattner, W.A. Cell surface antigen expression in new-born cord blood lymphocytes infected with HTLV. *Journal of Immunology*, 131: 2021-2024, 1983.
112. Mann, D.L., Mendell, N., Kahn, C.R., Johnson, A.H., & Rosenthal, A. *In vitro* lymphocyte proliferation response to therapeutic insulin components: evidence for genetic control by the human major histocompatibility complex. *Journal of Clinical Investigation*, 72: 1130-1138, 1983.
113. Gallo, R.C., Sarin, P.S., Gelmann, E.P., Robert-Guroff, M., Richardson, E., Kalyanaraman, V. S., Mann, D., Sidhu, G. D., Stahl, R. E., Leibowitch, J., & Popovic, M. Isolation of human T cell leukemia virus (HTLV) in acquired immune-deficiency syndrome (AIDS). *Science*, 220: 865-867, 1983.
114. Popovic, M., Lange-Wantzin, G., Sarin, P.S., Mann, D., & Gallo, R.C. Transformation of human umbilical cord blood T-cells by human T-cell leukemia/lymphoma virus (HTLV). *Proceedings of the National Academy of Sciences*, 80: 5402-5406, 1983.
115. Mitsuya, H., Matis, L.A., Megson, M., Bunn, P.A., Murray, C., Mann, D.L., Gallo, R.C., & Broder, S. Generation of an HLA-restricted cytotoxic T-cell line reactive against cultured tumor cells from a patient infected with human T-cell leukemia/lymphoma virus (HTLV). *Journal of Experimental Medicine*, 158: 994-999, 1983.

116. Muchmore, A.V., Megson, M., Decker, J.M., Knudsen, P., Mann, D.L., & Broder, S. Inhibitory activity of antibodies to human Ia-like determinants: comparison of intact and pepsin-digested antibodies. *Journal of Immunology*, 131: 725-730, 1983.
117. Karsh, J., Klippel, J.H., Mann, D.L., Reinertsen, J.L., Mantsopolous, H.M., Johnson, A.H., & Decker, J.L. Histocompatibility antigen combinations in rheumatoid arthritis. *Clinical and Experimental Rheumatology*, 1: 11-15, 1983.
118. Biggar, R.J., Andersen, H.K., Ebbesen, P., Melbye, M., Mann, D.L., & Strong, D.M. Seminal fluid excretion of CMV in homosexual men related to immunosuppression. *British Medical Journal*, 286: 2010-2012, 1983.
119. Neuland, C.Y., Blattner, W.A., Mann, D.L., Fraser, M.C., Tsai, S., & Strong, D.M. Familial chronic lymphocytic leukemia. *Journal of the National Cancer Institute*, 71: 1143-1150, 1983.
120. Biggar, R.J., Melbye, M., Ebbesen, P., Mann, D.L., Goedert, J.J., Weinstock, R., Strong, D.M., & Blattner, W.A. Low T lymphocyte ratios in homosexual men: Epidemiologic evidence for a transmissible agent. *JAMA*, 251: 1441-1446, 1984.
121. Mitsuya, H., Matis, L.A., Megson, M., Cohen, O.J., Mann, D.L., Gallo, R.C., & Broder, S. Immune T cells reactive against human T-cell leukemia/lymphoma virus. *The Lancet*, (March 24): 649-652, 1984.
122. Goedert, J.J., Biggar, R.J., Winn, D.M., Greene, M.H., Mann, D.L., Gallo, R.C., Sarngadharan, M.G., Weiss, S.H., Grossman, R.J., Bodner, A.J., Strong, D.M., & Blattner, W.A. Determinants of retrovirus (HTLV-III) antibody and immunodeficiency conditions in homosexual men. *Lancet*, 8405: 711-716, 1984.
123. Stiehm, E.R., Sztein, M.B., Steeg, P.S., Mann, D.L., Newland, C., Blaese, M., & Oppenheim, J.J. Deficient DR antigen expression on human cord blood monocytes: reversal with lymphokines. *Clinical Immunology and Immunopathology*, 30: 430-436, 1984.
124. Clarke, M.F., Trainor, C.D., Mann, D.L., Gallo, R.C., & Reitz, M.S. Methylation of human T-cell leukemia virus proviral DNA and viral RNA expression in short- and long-term cultures of infected cells. *Virology*, 135: 97-104, 1984.
125. Reitz, M.S., Mann, D.L., Eiden, M., Trainor, C.D., & Clarke, M.F. DNA methylation and expression of HLA-DR alpha. *Molecular and Cellular Biology*, 4: 890-897, 1984.
126. Mann, D.L., Clark, J., Clarke, M., Reitz, M., Popovic, M., Franchini, G., Trainor, C.D., Strong, D.M., Blattner, W.A., & Gallo, R.C. Identification of the human T-cell lymphoma virus (HTLV) in B-cell lines established from patients with adult T-cell leukemia. *Journal of Clinical Investigation*, 74: 56-62, 1984.
127. Popovic, M., Flomenberg, N., Volkman, D.J., Mann, D., Fauci, A.S., Dupont, B., & Gallo, R.C. Alteration of T-cell functions by infection with HTLV-I or HTLV-II. *Science*, 226: 459-462, 1984.
128. Clarke, M.F., Mann, D.L., Murray, C., & Reitz, M.S. Differential methylation of class I histocompatibility genes in human T-cell lines derived from two different T-cell neoplasias. *Leukemia Research*, 8: 965-974, 1984.

129. DeRossi, A., Aldovini, A., Franchini, G., Mann, D., Gallo, R.C., & Wong-Staal, F. Clonal selection of T lymphocytes infected by cell-free human T-cell leukemia/lymphoma virus type I: parameters of virus integration and expression. *Virology*, 143: 640-645, 1985.
130. Clark, J.W., Hahn, B.H., Mann, D.L., Wong-Staal, F., Popovic, M., Richardson, E., Strong, D.M., Lofters, W.S., Blattner, W.A., Gibbs, W.N., & Gallo, R.C. Molecular and immunologic analysis of a chronic lymphocytic leukemia case with antibodies against human T-cell leukemia virus. *Cancer*, 56: 495-499, 1985.
131. Goedert, J.J., Biggar, R.J., Winn, D.M., Mann, D.L., Byar, D.P., Strong, D.M., DiGioia, R.A., Grossman, R.J., Sanchez, W.C., Kase, R.G., Greene, M.H., Hoover, R.N., & Blattner, W.A. Decreased helper T lymphocytes in homosexual men. I. Sexual contact in high incidence areas for the acquired immunodeficiency syndrome. *American Journal of Epidemiology*, 121: 629-636, 1985.
132. Goedert, J.J., Biggar, R.J., Winn, D.M., Mann, D.L., Byar, D.P., Strong, D.M., DiGioia, R.A., Grossman, R.J., Sanchez, W.C., Kase, R.G., Greene, M.H., Hoover, R.N., & Blattner, W.A. Decreased helper T lymphocytes in homosexual men. II. Sexual practices. *American Journal of Epidemiology*, 121: 637-644, 1985.
133. Harris, C.C., Vahakangas, K., Newman, M., Trivers, G.E., Mann, D.L., & Wright, W. Detection of benzo(a)pyrene diol-epoxide-DNA adducts in peripheral blood lymphocytes and antibodies to the adducts in sera from coke oven workers. *Proceedings of the National Academy Sciences USA*, 82: 6672-6676, 1985.
134. Bale, S.J., Greene, M.H., Murray, C., Goldin, L.R., Johnson, A.H., & Mann, D. Hereditary malignant melanoma is not linked to the HLA complex on chromosome 6. *International Journal of Cancer*, 36: 439-443, 1985.
135. Hemler, M.E., Jacobson, J.G., Brenner, M.B., Mann, D., & Strominger, J.L. VLA-1: a T-cell surface antigen which defines a novel late stage of human T cell activation. *European Journal of Immunology*, 15: 502-508, 1985.
136. Boumpos, D.T., Hooks, J.J., Popovic, M., Tsokos, G.C., & Mann, D.L. Human T-cell leukemia/lymphoma virus I and/or Epstein-Barr virus-infected B-cell lines spontaneously produce acid-labile and interferon. *Journal of Clinical Immunology*, 5: 340-344, 1985.
137. Eiden, M., Newman, M., Fischer, A.G., Mann, D.L., Hawley, P.M., & Reitz, M.S. HTLV-I small envelope protein is expressed in mouse cell using a papilloma virus-derived shuttle vector. *Molecular and Cellular Biology*, 11: 3320-3324, 1985.
138. Steeg, P.S., Szein, M.B., Mann, D.L., Strong, D.M., & Oppenheim, J.J. Interferon regulation of DR antigen expression and alloantigen-presenting capabilities of the promyelocytic cell line HL60. *Scandinavian Journal of Immunology*, 21: 425-430, 1985.
139. Weiss, S.H., Mann, D.L., Murray, C.L., & Popovic, M. HLA-DR antibodies and HTLV-III antibody ELISA testing [letter]. *Lancet*, 2: 157-157, 1985.
140. Franchini, G., Mann, D.L., Popovic, M., Zicht, R.R., Gallo, R.C., & Wong-Staal, F. HTLV-I infection of T and B cells of a patient with adult T-cell leukemia-lymphoma (ATLL) and transmission of HTLV-I from B cells to normal T cells. *Leukemia Research*, 9: 1305-1314, 1985.

141. Jarrett, R.F., Mitsuya, H., Mann, D.L., Cossman, J., Broder, S., & Reitz, M.S. Configuration and expression of the T cell receptor chain gene in human T-lymphotrophic virus I-infected cells. *Journal of Experimental Medicine*, 163: 383-399, 1986.
142. Newman, M.J., Baker, I.T., Reitz, M.S., Eiden, M., Blattner, W.A., Gallo, R.C., & Mann, D.L. Serologic characterization of human T-cell leukemia (lymphotropic) virus, type (HTLV-I) small envelope protein. *Virology*, 150: 106-116, 1986.
143. Boumpas, D.T., Popovic, M., Mann, D.L., Balow, J.E., and Tsokos, G.C. Type C retrovirus of the human T cell leukemia family are not evident in patients with systemic lupus erythematosus. *Arthritis and Rheumatism*, 29: 185-188, 1986.
144. Boumpas, D.T., Tsokos, G.C., Mann, D.L., Eleftheriades, E.G., Harris, C.C., & Mark, G.E. Increased proto-oncogene expression in peripheral blood lymphocytes from patients with systemic lupus erythematosus and other autoimmune diseases. *Arthritis and Rheumatism*, 29: 755-760, 1986.
145. Goedert, J.J., Bigger, R.J., Melbye, M., Mann, D.L., Wilson, S., Gail, M.H., Grossman, R.J., DiGiovio, R.A. Sanchez, W.C., Weiss, S.M., & Blattner, W.A. Effect of T4 count and co-factors on AIDS incidence in homosexual men infected with human immunodeficiency virus. *JAMA*, 257: 331-334, 1987.
146. Tschachler, E., Groh, V., Popovic, M., Mann, D.L., Konrad, K., Safai, B., Eron, L., Veronese, F., Wolff, K., & Stingl, G. Epidermal Langerhans cells: a target for HTLV-III/LAV infection. *Journal of Investigative Dermatology*, 88: 233-237, 1987.
147. Harris, C.C., LaVeck, G., Groopman, J., Wilson, V.L., & Mann, D.L. Measurements of aflatoxin B metabolites, and DNA adducts by synchronous fluorescence spectrophotometry. *Cancer Research*, 46: 3279-3282, 1987.
148. Smolen, J.S., Klippel, J.H., Penner, M., Steinberg, A.D., Chused, T.M., Shcerak, O., Graninger, W., Mann, D.L., & Mayr, W.R. HLA-DR antigens in systemic lupus erythematosus: association with specificity of autoantibody responses to nuclear antigen. *Annals Rheumatic Diseases*, 46: 457-462, 1987.
149. Mann, D.L., LeSane, F., Popovic, M., Arthur, L.O., Robey, W.G., Blattner, W.A., & Newman, M.J. HTLV-III large envelope protein (gp120) suppresses PHA induced lymphocyte blastogenesis. *Journal of Immunology*, 138: 2640-2644, 1987.
150. Mann, D.L., DeSantis, P., Mark, G., Pfeifer, A., Newman, M., Gibbs, N., Popovic, M., Samadharan, M.O., Gallo, R.C., Clark, J., & Blattner, W.A. Indirect role for retrovirus in leukemogenesis. *Science*, 236: 1103-1106, 1987.
151. Harris, C.C., Weston, A., Willey, J.C., Trivers, G.E., & Mann, D.L. Biochemical and molecular epidemiology of human cancer: indicators of carcinogen exposure, DNA damage, and genetic predisposition. *Environmental Health Perspectives*, 75: 109-119, 1987.
152. Shepp, D.H., Daguillard, F., Mann, D., & Quinann, G.V. Human Class I MHC restricted cytotoxic T lymphocytes specific for human immunodeficiency virus envelope antigens. *AIDS*, 2: 113-117, 1988.
153. Newman, M.J., Light, B.A., Weston, A., Tollerude, D., Clark, J., Mann, D.L., Blackman, J.P., & Harris, C.C. Detection and characterization of human serum antibodies to polycyclic aromatic hydrocarbon diol-epoxide DNA adducts. *Journal of Clinical Investigation*, 82: 145-153, 1988.

154. Weston, A., Rowe, M., Poirier, M., Trivers, G., Vahakangas, K., Newman, M., Haugen, A., Manchester, D., Mann, D., & Harris, C. The application of immunoassays and fluorometry to the detection of polycyclic hydrocarbon-macromolecular adducts and anti-adduct antibodies in humans. *International Archives of Occupational and Environmental Health*, 60: 157-162, 1988.
155. Mann, D.L., Murray, C., Yarchoan, R., Blattner, W.A., & Goedert, J.J. HLA antigen frequencies in HIV seropositive disease-free individuals and patients with AIDS. *J. AIDS*, 1: 13-17, 1988.
156. Mann, D.L., Read-Connole, E., Arthur, L.O., Robey, W.G., Wernet, P., Schneider, E.M., Blattner, W.A., & Popovic, M. HLA-DR is involved in the human immunodeficiency virus binding site on cells expressing MHC class II antigens. *Journal of Immunology*, 141: 1131-1137, 1988.
157. Graziano, S.L., Mark, G.E., Murray C., Mann, D.L., Evlich, G., Poesz, B.J., & Weston, A. DNA restriction fragment length polymorphisms at either end of the c-ras-1 locus at 3p25. *Oncogene Research*, 3: 99-103, 1988.
158. Clark, J.W., Gurgo, C., Franchini, G., Gibbs, N.W., Loffers, W., Neuland, C., Mann, D., Saxinger, C., Gallo, R.C., & Blattner, W.A. Molecular epidemiology of HTLV-I associated non-Hodgkin's lymphomas in Jamaica. *Cancer*, 61: 1477-1482, 1988.
159. Mann, D.L., LeSane, F., Boumpas, D., Dean, M., & Blattner, W.A. HTLV-I infection and chronic lymphocytic leukemia. *Nouvelle Revue Francaise D Hematologie*, 30: 267-273, 1988.
160. Rappersberger, K., Gartner, S., Schenk, P., Stingl, G., Groh, V., Tschachler, E., Mann, D.L., Wolff, K., Konrad, K., & Popovic, M. Langerhans cells are an actual site of HIV-1 replication. *Intervirology*, 29: 185-194, 1988.
161. Schneider, E.M., Saal, J.G., Mann, D.L., Pawelec, G., Schneider, J., Schlote, W., & Wernet, P. Respective T- and B cell lymphomas in a married couple: *in vivo* activated T cells lysing both tumor targets and concomitant humoral immune response pointing to a putative novel HLA-class I-like restriction element related to HTLV I. *International Journal of Cancer*, 41: 548-556, 1988.
162. Manchester, D.K., Weston, A., Choi, J.-S., Trivers, G.E., Fennessey, P.V., Quintana, E., Farmer, P.B., Mann, D.L., & Harris, C.C. Detection of benzo[a]pyrene diol-epoxide-DNA adducts in human placenta. *Proceedings of the National Academy of Sciences USA*, 85: 9243-9247, 1988.
163. Tollerud, D.J., Clark, J.W., Brown, L.M., Neuland, C.Y., Mann, D.L., Pankiw-Trost, L.K., Blattner, W.A., & Hoover, R.N. Association of cigarette smoking with decreased numbers of circulating natural killer cells. *American Review of Respiratory Disease*, 139-194, 1989.
164. Weston, A., Rowe, M.L., Manchester, D.K., Farmer, P.B., Mann, D.L., & Harris, C.C. Fluorescence and mass spectral evidence for the formation of benzo[a]pyrene anti-diol-epoxide-DNA and hemoglobin adducts in humans. *Carcinogenesis*, 10: 251-257, 1989.
165. Haugen, A., Mann, D., Murray, C., Weston, A., & Willey, J.C. Interleukin 1 alpha gene intron containing variable repeat region coding for the SP1 transcription factor recognition sequence is polymorphic. *Molecular Carcinogenesis*, 2: 68-71, 1989.
166. Weston, A., Willey, J.C., Modali, R., Sugimura, H., McDowell, E.M., Resau, J., Light, B., Haugen, A., Mann, D.L., Trump, B.F., & Harris, C.C. Differential DNA sequence deletions from chromosomes 3, 11, 13 and 17 in squamous-cell carcinoma, large-cell carcinoma, and adenocarcinoma of the human lung. *Proceedings of the National Academy of Sciences USA*, 86: 5099-5103, 1989.

167. Weston, A., Manchester, D.K., Poirier, M.C., Choi, J-S., Trivers, G.E., Mann, D.L., & Harris, C.C. Derivative fluorescence spectral analysis of polycyclic aromatic hydrocarbon-DNA adducts in human placenta. *Chemical Research in Toxicology*, 2: 104-108, 1989.
168. Mann, D.L., O'Brien, S.J., Gilbert, D.A., Reid, Y., Popovic, M., Read-Connoles, E., & Gallo, R.C. Origin of the HIV-susceptible human CD4+ cell line H9. *AIDS Research and Human Retroviruses*, 5: 253-255, 1989.
169. Clerici, M., Stocks, N.I., Zajac, R.A., Boswell, R.N., Bernstein, D.C., Mann, D.L., Shearer, G.M., & Berzofsky, J.A. Interleukin-2 production used to detect antigenic peptide recognition by T-helper lymphocytes from asymptomatic HIV-seropositive individuals. *Nature*, 339: 383-385, 1989.
170. Goedert, J.J., Kessler, C.M., Aledort, L.M., Biggar, R.J., Andes, W.A., White, G.C., Drummond, J.E., Vaidya, K., Mann, D.L., Eyster, M.E., Ragni, M.V., Lederman, M.M., Cohen, A.R., Bray, G.L., Rosenberg, P.S., Friedman, R.M., Hilgartner, M.W., Blattner, W.A., Kroner, B., & Gail, M.H. A prospective study of human immunodeficiency virus type 1 infection and the development of AIDS in subjects with hemophilia. *New England Journal of Medicine*, 321: 1141-1152, 1989.
171. Wilson, V.L., Weston, A., Manchester, D.K., Trivers, G.E., Roberts, D.W., Kadlubar, F.F., Wild, C.P., Montesano, R., Willey, J.C., Mann, D.L., & Harris, C.C. Alkyl and aryl carcinogen adducts detected in human peripheral lung. *Carcinogenesis*, 10: 2149-2153, 1989.
172. Tollerud, D.J., Clark, J.W., Brown, L.M., Neuland, C.Y., Mann, D.L., Pankiw-Trost, L.K., Blattner, W.A., & Hoover, R.N. The effects of cigarette smoking on T-cell subsets: a population-based survey of healthy caucasians. *American Review of Respiratory Disease*, 139: 1446-1451, 1989.
173. Tollerud, D.J., Clark, J.W., Brown, L.M., Neuland, C.Y., Mann, D.L., Pankiw-Trost, L.K., Blattner, W.A., & Hoover, R.N. The influence of age, race, and gender on peripheral blood mononuclear cell subsets in healthy nonsmokers. *Journal of Clinical Immunology*, 9: 214-222, 1989.
174. Mann, D.L., Gartner, S., LeSane, F., Blattner, W.A., & Popovic, M. Cell surface antigens and function of monocytes and a monocyte-like cell line before and after infection with HIV. *Clinical Immunology Immunopathology*, 54: 174-183, 1990.
175. Mann, D.L., Gartner, S., LeSane, F., Buchow, H., & Popovic, M. HIV-1 transmission and function of virus-infected monocytes/macrophages. *Journal of Immunology*, 144: 2152-2158, 1990.
177. Weston, A., Newman, M.J., Mann, D., & Brooks, B.R. Molecular mechanics and antibody binding in the structural analysis of polycyclic aromatic hydrocarbon-diol-epoxide-DNA-adducts. *Carcinogenesis*, 11: 859-864, 1990.
178. Stingl, G., Rappersberger, K., Tschachler, E., Gartner, S., Groh, V., Mann, D.L., Wolff, K., & Popovic, M. Langerhans cells in HIV-1 infection. *Journal of the American Academy of Dermatology*, 22: 1210-1217, 1990.
179. Manchester, D.K., Wilson, V.L., Hsu, I-C, Choi, J-S, Parker, N.B., Mann, D.L., Weston, A., & Harris, C.C. Synchronous fluorescence spectroscopic, immunoaffinity chromatographic and ³²P-postlabeling analysis of human placental DNA known to contain benzo[a]pyrene-diol-epoxide-adducts. *Carcinogenesis*, 11: 553-559, 1990.

180. Harris, P.E., Strba-Cechova, K., Rubinstein, P., Mann, D., King, D.W., & Suciu-Foca, N. Amplification of T cell blastogenic responses in healthy individuals and patients with acquired immunodeficiency syndrome. *Journal of Clinical Investigation*, 85: 746-756, 1990.
181. Tollerud, D.J., Ildstad, S.T., Brown, L.M., Clark, J.W., Blattner, W.A., Mann, D.L., Neuland, C.Y., Pankiw-Trost, L., & Hoover, R.N. T-cell subsets in healthy teenagers: transition to the adult phenotype. *Clinical Immunology Immunopathology*, 56: 88-96, 1990.
182. Rappersberger, K., Tschachler, E., Zonzits, E., Gillitzer, R., Hatzakis, A., Kaloterakis, A., Mann, D.L., Popow-Kraupp, T., Biggar, R.J., Berger, R., Stratigos, J., Wolff, K., & Stingl, G. Endemic Kaposi's sarcoma in human immunodeficiency virus type 1-seronegative persons: demonstration of retrovirus-like particles in cutaneous lesions. *Journal of Investigative Dermatology*, 95: 371-381, 1990.
183. Mann, D.L., Murray, C., O'Donnell, M., Blattner, W.A., & Goedert, J.J. HLA antigen frequencies in HIV-1-related Kaposi's sarcoma. *J. AIDS*, 3: 51-55, 1990.
184. Korba, B.E., Boumpas, D., Mann, D., & Yoakum, G.H. Direct modulation of HBV surface antigen in a human, Hbsag-producing hepatocellular carcinoma cell line by alpha, beta, or gamma interferons. *Journal of Medical Virology*, 31(4): 272-6, 1990.
185. Pfeifer, A.M.A., Jones, R.T., Bowden, P.E., Mann, D.L., Spillare, E., Klein-Szanto, A.J.P., Trump, B.F., & Harris, C.C. Human bronchial epithelial cells transformed by the c-raf-1 and c-myc proto-oncogenes induce multidifferentiated carcinomas in nude mice: a model for lung carcinogenesis. *Cancer Research*, 51: 3793-3801, 1991.
186. Newman, M.J., Weston, A., Carver, D.C., Mann, D.L., & Harris, C.C. Serological characterization of polycyclic aromatic hydrocarbon diol-epoxide-DNA adducts using monoclonal antibodies. *Carcinogenesis*, 11: 1903-1907, 1991.
187. Tollerud, D.J., Brown, L.M., Clark, J. W., Neuland, C.Y., Mann, D.L., Pankiw-Trost, L.K., & Blattner, W.A. Cryopreservation and long-term liquid nitrogen storage of peripheral blood mononuclear cells for flow cytometry analysis: effects on cell subset proportions and fluorescence intensity. *Journal of Clinical and Laboratory Analysis*, 5: 255-261, 1991.
188. Madrigal J.A., Belich, M.P., Benjamin, R.J., Little, A.-M., Hildebrand, W.H., Mann, D.L., & Parham P. Molecular definition of a polymorphic antigen (LA45) of free HLA-A and -B heavy chains found on the surfaces of activated B and T cells. *Journal of Experimental Medicine*, 174: 1085-1095, 1991.
189. Tollerud, D.J., Brown, L.M., Blattner, W.A., Mann, D.L., Pankiw-Trost, L., & Hoover, R.N. T cell subsets in healthy black smokers and nonsmokers evidence for ethnic group as an important response modifier. *American Review of Respiratory Disease*, 144: 612-616, 1991.
190. Blackburn, R., Clerici M., Mann, D., Luccy, D.R., Goedert J., Golding B., Shearer, G.M., & Golding, H. Common sequence in HIV-1, GP41 and HLA class II beta chains can generate crossreactive autoantibodies with immunosuppressive potential early in the course of HIV-1 infection. *Advances in Exper Medicine & Biology*, 303: 63-9, 1991.
191. O'Brien, S.J. & Mann, D.L. Adaptive chaos and AIDS. *Current Biology*, 2: 203-205, 1992.
192. Martin, P. M., Carrington, M., & Mann, D.L. A method for using serum or plasma as a source of DNA for HLA typing. *Human Immunology*, 33: 108-113, 1992.

193. Carrington, M.N., White, M.B., Dean, M., Mann, D.L., & Ward, F.E. The use of DNA heteroduplex patterns to map recombination within the HLA class II region. *Human Immunology*, 33: 114-121, 1992.
194. Carrington, M.N., Miller, T., White, M.B., Gerrard, B., Stewart, C., Dean, M., & Mann, D.L. Typing of HLA-DQA1 and -DQB1 using DNA single-strand conformation polymorphism. *Human Immunology*, 33: 208-212, 1992.
195. Mann, D.L., Carrington, M., O'Donnell, M., Miller, T., & Goedert, J. HLA phenotype is a factor in determining rate of disease progression and outcome in HIV-1 infected individuals. *J. Aids Research and Human Retroviruses*, 8: 1345-1346, 1992.
196. Arthur, L.O., Bess, Jr., J.W., Sowder, II, R.C., Benveniste, R.E., Mann, D.L., Chermann, J.C., & Henderson, L.E. Cellular Proteins Bound to Immunodeficiency Viruses: Implications for Pathogenesis and Vaccines. *Science*, 258: 1935-1938, 1992.
197. Carrington, M., Colonna, M., Spies, T., Stephens, J.C., & Mann, D.L. Haplotypic variation of the transporter associated with antigen processing (TAP) genes and their extension of HLA class II region haplotypes. *Immunogenetics*, 37: 266-273, 1993.
198. Martin, M.P., Biggar, R.J., Hamlin-Green, G., Staal, S., & Mann, D.L. Large Granular Lymphocytosis in a Patient Infected with HTLV-II. *AIDS Research and Human Retroviruses*, 9: 715-719, 1993.
199. Carrington, M.N., Yeager, M., & Mann, D.L. Characterization of HLA-DMB Polymorphism. *Immunogenetics*, 38: 446-449, 1993.
200. Mann, D.L., Hamlin-Green, G., Willoughby, A., Landesman, S.H., & Goedert, J.J. Immunoglobulin Class and Subclass Antibodies to HIV Proteins in Maternal Serum: Association with Perinatal Transmission. *JAIDS*, 7: 617-622, 1994.
201. Mann, D.L., Carrington, M., & Kroner, B.L. The Human Major Histocompatibility Complex and HIV-1 Pathogenesis. *AIDS*, 8: S53-S60, 1994.
202. Kaslow, R.A., & Mann, D.L. The Role of the Major Histocompatibility Complex in HIV Infection- Ever More Complex? *Journal of Infectious Diseases*, 169: 1332-1333, 1994.
203. Mann, D.L., Martin, P., Hamlin-Green, G., Nalewaik, R., & Blattner, W. Virus Production and Spontaneous Cell Proliferation in HTLV-I-Infected Lymphocytes. *Clinical Immunology and Immunopathology*, 72: 312-320, 1994.
204. Carrington, M., Stephens, J.C., Klitz, W., Begovich, A.B., Erlich, H.A., & Mann, D. MHC Class II Haplotypes and Linkage Disequilibrium Values Observed in the CEPH Families. *Human Immunology*, 41: 234-240, 1994.
205. Carrington, M., Krueger, L.J., Holsclaw, D.S., Jr., Iannuzzi, M.C., Dean, M., & Mann, D. Cystic Fibrosis-Related Diabetes is Associated with HLA-DQB1 Alleles Encoding Asp-57 Molecules. *Journal of Clinical Immunology*, 14: 353-358, 1994.
206. Martin, M., Mann, D., & Carrington, M. Recombination Rates across the HLA Complex: Use of Microsatellites as a Rapid Screen for Recombinant Chromosomes. *Human Molecular Genetics*, 4: 423-428, 1995.
207. Kroner, B.L., Goedert, J.J., Blattner, W.A., Wilson, S.E., Carrington, M.N., & Mann, D.L.

Concordance of HLA Haplotype Sharing, CD4 Decline and AIDS Status in Hemophilic Siblings. *AIDS*, 9: 275-280, 1995.

208. Arthur, L.O., Bess, Jr., J.W., Urban, R.G., Strominger, J.L., Morton, W.R., Mann, D.L., Henderson, L.E., & Benveniste, R.E. Macaques immunized with HLA-DR are protected from challenge with simian immunodeficiency virus. *Journal of Virology*, 69: 3117-3124, 1995.
209. Barron, K.S., Reveille, J.D., Carrington, M., Mann, D.L., & Robinson, M.A. Susceptibility to Reiter's Syndrome is Associated with Alleles of TAP Genes. *Journal of Arthritis and Rheumatism*, 38: 684-689, 1995.
210. Lunardi-iskandar, Y., Gill, P., Lam, V., Zeman, R.A., Michaels, F., Mann, D.L., Reitz, Jr., M.S., Kaplan, M., Berneman, Z.N., Carter, D., Bryant, J.L., & Gallo, R.C. A Neoplastic Cell Line (KS Y-1) from HIV-1-Associated Kaposi's Sarcoma: Evidence for Malignancy. *Journal of National Cancer Institute*, 87: 973-981, 1995.
211. Maloney, E., Pate, E., Wiktor, S.Z., Morais, P., Mann, D., Gray, R., Manns, A., & Blattner, W.A. The relative distribution of T-cell subsets is altered in Jamaican children infected with the human T-cell lymphotropic virus Type-I (HTLV-I). *Journal of Infectious Disease*, 172: 867-870, 1995.
212. Detels, R., Mann, D.L., Carrington, M., Hennessey, K., Wu, Z., Hirji, K.F., Wiley, D., Visscher, B.R., & Giorgi, J.V. Resistance to HIV infection may be genetically mediated. *AIDS*, 10: 102-104, 1996.
213. Kurotachi, K., Carrington, M., Mann, D., Simons, T.B., Alexander-Miller, M.A., Feinstone, S.M., Akatsulca, T., & Bersofsky, J.A. Expression of HLA Class I molecule and the transporter associated with antigen processing in hepatocellular carcinoma. *Hepatology*, 23: 1181-1188, 1996.
214. Kaslow, R.A., Carrington, M., Apple, R., Park, L., Munoz, A., Saah, A.J., Goedert, J.J., Winkler, C., O'Brien, S.J., Rinaldo, C., Detels, R., Blattner, W., Phair, J., Erlich, H., & Mann, D.L. Influence of combinations of human major histocompatibility complex genes on the course of HIV-1 infection. *Nature Medicine*, 2: 405-411, 1996.
215. Detels, R., Mann, D., Carrington, M., Wu, Z., Hennessey, K., Wiley, D., Visscher, B.R., & Giorgi, J.V. Persistently seronegative men from whom HIV-1 has been isolated are genetically and immunologically distinct. *Immunology Letters*, 51: 29-33, 1996.
216. Tsukui, T., Hildesheim, A., Schiffman, M.H., Lucci, J. III, Contois, D., Lawler, P., Rush, B., Lorincz, A.T., Corrigan, A., Burk, R.D., Qu, W., Marshall, M.A., Mann, D., Carrington, M., Clerci, M., Shearer, G.M., Carbone, D.P., Scott, D.R., Houghten, R.A., & Berzofsky, J.A. IL-2 production in vitro by peripheral lymphocytes in response to human papillomavirus-derived peptides: Correlation with cervical pathology. *Cancer Research*, 56: 3967-3974, 1996.
217. Carrington, M., Wei-Ya Ma, Stephans, J.C., Martin, M., Harding, A., Noble, J., Erlich, H., Mann, D., Arango, C., Jaramillo, R., Coucha, M., Maloney, E., & Blattner, W. Identification at a novel Tap 2 allele in a Columbian black population: Gene conversation, ancestral intermediate or convergent change? *Molecular Biology and Evolution*, 14(8): 892-894, 1997.
218. Nelson, G.W., Kaslow, R., & Mann, D.L. Frequency of HLA allele-specific peptide motifs in HIV-1 protein correlates with the alleles association with relative rates of disease progression after HIV-1 infection. *Proceedings of the National Academy of Sciences, USA*, 94: 9802-9807, 1997.
219. Ratto-Kim, S., Sitz, K.V., Scherer, A.M., Kim, J.H., Anderson, D.W., Nau, M.E., Mann, D.L.,

- Akolkar, P.N., Gulwani-Akolkar, B., Silver, J., & Birk, D.L. Comparison of HIV-1 envelope-specific CD4+ T cell lines simultaneously established from peripheral blood mononuclear cells and lymph node biopsy in HIV-1-infected individuals. *The Journal of Immunology*, 159: 5162-5167, 1997.
220. Wilson, S.E., Pedersen, S.L., Kunich, J.C., Wilkins, V.L., Mann, D.L., Mazzara, G.P., Tartaglia, J., Celum, C.L. & Sheppard, H.W. Cross-clade envelope glycoprotein 160-specific CD8+ cytotoxic T lymphocyte responses in early HIV type 1 clade B infection. *AIDS Research & Human Retroviruses*, 14: 925-937, 1998.
 221. Mann, D.L., Garner, R.P., Dayhoff, D.E., Cao, K., Fernandez-Vina, M.A., Davis, C., Aronson, N., Ruiz, N., Birk, D.L., & Michael, N.L. Major histocompatibility complex genotype is associated with disease progression and virus load levels in a cohort of human immunodeficiency virus type 1-infected Caucasians and African-Americans. *Journal of Infectious Diseases*, 178: 1799-1802, 1998.
 222. Lynch, J.A., deSouza, M., Robb, M.D., Markowitz, L., Nitayaphan, S., Sapan, C.V., Mann, D.L., Birk, D.L., & Cox, J.H. Cross-clade cytotoxic T cell response to human immunodeficiency virus type 1 proteins among HLA disparate North Americans and Thais. *Journal of Infectious Diseases*, 178(4): 1040-1046, 1998.
 223. Saah, A.J., Hoover, D.R., Weng, S., Carrington, M., Mellors, J., Rinaldo, C.R. Jr., Mann, D., Apple, R., Phair, J.P., Detels, R., O'Brien, S., Enger, C., Johnson, P., & Kaslow, R.A. for the Multicenter AIDS Cohort Study: Association of HLA profiles with early plasma viral load, CD4+ cell count and rate of progression to AIDS following acute HIV-1 infection. *J AIDS*, 12: 2115-2124, 1998.
 224. Papadimitriou, J.C., Drachenberg, C.B., Klassen, D.K., Bartlett, S.T., & Mann, D.L. Transmission of malignant tumors through solid organ transplantation. *Pathology Case Reviews*, 3(2): 86-89, 1998.
 225. Lim, J.K., Hunter, J., Fernandez-Vina, M., & Mann, D.L. Characterization of LMP polymorphism in homozygous typing cells and a random population. *Human Immunology*, 60: 145-151, 1999.
 226. Berlyn, K.A., Ponniah, S., Stass, S.A., Malone, J.G., Hamlin-Green, G., Lim, J.K., Cottler-Fox, M., Tricot, G., Alexander, R.B., Mann, D.L., & Malone, R.W. Developing dendritic cell polynucleotide vaccination for prostate cancer immunotherapy. *Journal of Biotechnology*, 73: 155-179, 1999.
 227. Keet, I.P.M., Tang, J., Klein, M.R., LeBlanc, S., Enger, C., Rivers, C., Apple, R.J., Mann, D., Goedert, J.J., Miedema, F., & Kaslow, R.A. Consistent associations of HLA Class I and II and transporter gene products with progression of human immunodeficiency virus Type 1 infection in homosexual men. *J Infect Dis*, 180: 299-309, 1999.
 228. Berlyn, K.A., Schultes, B., Leveugle, B., Noujaim, A.A., Alexander, R.B., & Mann, D.L. Generation of CD4+ and CD8+ T lymphocyte responses by dendritic cells armed with PSA/anti-PSA (antigen:antibody) complexes. *Clinical Immunology*, 101(3): 276-83, 2001.
 229. Sidney, J., Southwood, S., Mann, D.L., Fernandez-Vina, M.A., Newman, M.J., & Sette, A. Majority of peptides binding HLA-A*0201 with high affinity crossreact with other A2-supertype molecules. *Human Immunology*, 62: 1200-1216, 2001.
 230. Fischer, G.F., Fae, I., Mann, D., Kriks, D., Jäger, W., Platzter, W., Mayr, W.R., & Voic-Platzter, B. An HLA Class-II allele frequent in Eskimos and Amerindians is found in the Tyrolean Ice Man.

231. Hankey, K.G., Drachenberg, C.B., Papadimitriou, J.C., Klassen, D.K., Philosophe, B., Bartlett, S.T., Groh, V., Spies, T., & Mann, D.L. MIC expression in renal and pancreatic allografts. *Transplantation*, 73(2): 304-306, 2002.
232. Karp, J.E., Ross, D.D., Yang, W., Tidwell, M.L., Wei, Y., Greer, J., Mann, D.L., Nakanishi, T., Wright, J.J., & Colevas, A.D. Timed sequential therapy of acute leukemia with flavopiridol: In vitro model for a phase I clinical trial. *Clinical Cancer Research*, 9: 307-315, 2003.
233. Koopman, G., Niphuis, H., Haaksma, A.G.M., Farese, A.M., Casey, D.B., Kahn, L.E., Mann, D., MacVittie, T.J., Woulfe, S.L., & Heeney, J.L. Increase in plasmacytoid and myeloid dendritic cells by progenopoietin-1, a chimeric Flt-3 and G-CSF receptor agonist, in SIV-infected rhesus macaques. *Human Immunology*, 65: 303-316, 2004.
234. Rapoport, A.P., Levine, B.L., Badros, A., Meisenberg, B., Ruehle, K., Nandi, A., Rollins, S., Natt, S., Ratterree, B., Westphal, S., Mann, D., & June, C.H. Molecular remission of CML after autotransplantation followed by adoptive transfer of costimulated autologous T-cells. *Bone Marrow Transplantation*, 33(1): 53-60, 2004.
235. Klyushnenkova, E.N., Ponniah, S., Rodriguez, A., Kodak, J., Mann, D.L., Langerman, A., Nishimura, M.I., & Alexander, R.B.: CD4 and CD8 T lymphocyte recognition of prostate specific antigen in granulomatous prostatitis. *Journal of Immunotherapy*, 27(2): 136-46, 2004.
236. Cao, K., Moorman, A.M., Lyke, K.E., Masaberg, C., Sumba, O.P., Doumbo, O.K., Koech, D., Lancaster, A., Nelson, M., Meyer, D., Single, R., Hartzman, R.J., Plowe, C.V., Kazura, J., Mann, D.L., Szezin, M.B., Thomson, G., & Fernandez-Vina, M.A. Differentiation between African populations is evidenced by the diversity of alleles and haplotypes of HLA class I loci. *Tissue Antigens*, 63(4): 293-325, 2004.
237. Alexander, R.B., Mann, D.L., Borkowski, A.A., Fernandez-Vina, M., Klyushnenkova, E.N., Kodak, J., Proppert, K.J., & Kincaid, M. Granulomatous prostatitis linked to HLA-DRB1*1501. *The Journal of Urology*, Jun, 171(6 Pt 1): 2326-9, 2004.
238. Yusibov, V., Mett, V., Davidson, C., Musychuk, K., Gilliam, S., Farese, A., MacVittie, T., & Mann, D. Peptide-based candidate vaccine against respiratory syncytial virus. *Vaccine*, Mar, 23(17-18):2261-5, 2005.
239. Drachenberg, C.B., Papadimitriou, J.C., Mann, D., Hirsch, H.H., Wali, R., & Ramos, E. Negative impact of human leukocyte antigen matching in the outcome of polyomavirus nephropathy. *Transplantation*, 80(2):276-278, 2005.
240. Koopman, G., Mortier, D., Niphuis, H., Farese, A.M., Kahn, L.E., Mann, D., Wagner, R., MacVittie, T.J., Woulfe, S.L., & Heeney, J.L. Systemic mobilization of antigen presenting cells, with a chimeric Flt-3 and G-CSF receptor agonist, during immunization of Macaca mulatta with HIV-1 antigens is insufficient to modulate immune responses or vaccine efficacy. *Vaccine*, 23(33):4195-4202, 2005.
241. Rapoport, A.P., Stadtmauer, E.A., Aquilino, N., Badros, A., Cotte, J., Chrisley, L., Veloso, E., Zheng, Z., Westphal, S., Mair, R., Chi, N., Ratterree, B., Pochran, M.F., Natt, S., Hinkle, J., Sickles, C., Sohal, A., Ruehle, K., Lynch, C., Zhang, L., Porter, D.L., Luger, S., Guo, C., Fang, H.B., Blackwelder, W., Hankey, K., Mann, D., Edelman, R., Frasch, C., Levine, B.L., Cross, A., & June, C.H. Restoration of immunity in lymphopenic individuals with cancer by vaccination and adoptive T-cell transfer. *Nature Medicine* 11(11):1230-1237, 2005.

242. Kodak, J.A., Mann, D.L., Klyushnenkova, E.N., & Alexander, R.B. Activation of innate immunity by prostate specific antigen (PSA). *The Prostate* 66:1592-1599, 2006.
243. Curreli, S., Arany, Z., Gerardy-Schahn, R., & Mann, D., & Stamatos, N.M. Polysialylated neuropilin-2 is expressed on the surface of human dendritic cells and modulates dendritic cell-T lymphocyte interactions. *The Journal of Biological Chemistry*, Oct, 282(42):30346-56, 2007.
244. Salit, R.B., Hankey, K.G., Yi, R., Rapoport, A.P., & Mann, D.L. Detection of CD4(+) T-cell antibodies in a patient with idiopathic CD4 T lymphocytopenia and cryptococcal meningitis. *British Journal of Haematology*, Oct, 139(1):133-7, 2007.
245. Gong, P., Angelini, D.J., Yang, S., Xia, G., Cross, A.S., Mann, D., Bannerman, D.D., Vogel, S.N., & Goldblum, S.E. Toll-like receptor 4 signaling is coupled to src family kinase activation, tyrosine phosphorylation of zonula adherens proteins, and opening of the paracellular pathway in human lung microvascular endothelia. *The Journal of Biological Chemistry*, In press, 2008.
246. Strome, S.E., Sausville, E.A., Mann, D. A mechanistic perspective of monoclonal antibodies in cancer therapy beyond target-related effects. *Oncologist*, Sep, 12(9):1084-95, 2007.
247. Lin, W., Voskens, C.J., Zhang, X., Schindler, D.G., Wood, A., Burch, E., Wei, Y., Chen, L., Tian, G., Tamada, K., Wang, L.X., Schulze, D.H., Mann, D., Strome, S.E. Fc dependent expression of CD137 on human NK cells: insights into "agonistic" effects of anti-CD137 monoclonal antibodies. *Blood*, Aug. 1;112(3):699-707, 2008.
248. Harris, K.M., Lenz, P., Hankey, K., Macvittie, T., Farese, A., Nakajima, K., Jasumi, K., Mann, D.L. Products of anti-CD3/anti-CD28 activated lymphocytes induce differentiation and maturation of dendritic cells and have adjuvant-like activity in vitro and in vivo. *Clin Immunol.* Oct;129(1):58-68, 2008.
249. Harris, K.M., Fasano, A., Mann, D.L. Cutting Edge: IL-1 controls the IL-23 response induced by gliadin, the etiologic agent in celiac disease. *J Immunol.* Oct 1;181(7): 4457-60; 2008.

Chapters

1. Mann, D.L. Comparison of HL-A alloantigen solubilized by papain and TIS. In: Kahan, B. D. and Reisfeld, R. A. (Eds.), *Transplantation Antigens*. New York and London, Academic Press, pp. 287-297, 1972.
2. Mann, D.L., le Pourhiet, A., Leventhal, B.G., & Halterman, R. Studies on the immunologic reactivity of serums from acute leukemia patients. In: Richard, V. (Ed.), *Progress in Experimental Tumor Research*. Basel, S. Karger, pp. 102-109, 1974.
3. Strominger, J.L., Chess, L., Herrmann, H.C., Humphreys, R.E., Malenka, D., Mann, D.L., McCune, J.M., Parham, P., Robb, R., Springer, T.A., & Terhorst, C. Isolation of histocompatibility antigens and of several B cell specific proteins from cultured human lymphocytes. In: Kissmeyer-Nielsen, F. (Ed.), *Histocompatibility Testing* 175. Copenhagen, Munksgaard, pp. 719-730, 1975.
4. Mann, D.L., Strober, W., Katz, S.I., Hsia, S., & Amos, D.B. Brand Wh, B cell antigens in gluten sensitive enteropathy and dermatitis herpetiformis. In: Katz, D. H. and Benacerraf, B. (Eds.), *The Role of Products of the Histocompatibility Gene Complex in Immune Responses*. New York, Academic Press, pp. 59-69, 1976.
5. Abelson, L., Henkart, P., & Mann, D.L. Typing for specific B lymphocyte antigens. In: Rose, N. R. and Friedman, H. (Eds.), *Manual of Clinical Immunology*. Washington DC, American Society for Microbiology, pp. 811-813, 1976.

6. Strominger, J.L., Chess, L., Humphreys, R.E., Mann, D.L., Parham, P., Robb, R., Schlossman, S., Springer, T., & Terhorst, C. Isolation and structure of products of the human histocompatibility gene complex. In Katz, D. H. and Benacerraf, B. (Eds.), *The Role of the Histocompatibility Gene Complex in Immune Responses*. New York, Academic Press, pp. 621-643, 1976.
7. Mann, D.L., Abelson, L., Henkart, P., Harris, S., & Amos, D.B. Serologic detection of B lymphocyte antigens. In: Kissmeyer-Nielsen, F.(Ed.), *Histocompatibility Testing* 175. Copenhagen, Munksgaard, pp. 705-707, 1976.
8. Strominger, J.L., Humphreys, R.E., Kaufman, J.F., Mann, D.L., Parham, P., Robb, R., Springer, T., & Terhorst, C. The structure of products of the major histocompatibility complex in man. In: Melchers, F. and Rajewsky, K. (Eds.), *27 Mosbacher Colloquium*. Berlin, Springer-Verlag, pp 202-219, 1976.
9. Strominger, J.L., Ferguson, W., Fuks, A., Giphart, M., Kaufmann, J., Mann, D.L., Orr, H., Parham, P., Robb, R., & Terhorst, C. Isolation and structure of HLA antigens. In: Mandel, T. E., Cheers, C., Hosking, C. S., McKenzie, I. C. F., and Nossal, G. J. V. (Eds.), *Progress in Immunology*. New York, Elsevier/North-Holland, Inc., pp. 109-117, 1977.
10. Strominger, J.L., Ferguson, W., Fuks, A., Giphart, M., Kaufmann, J., Mann, D.L., Orr, H., Parham, P., Robb, R., & Terhorst, C. Isolation and structure of HLA antigens. In: Lerner, R. A. and Bergsma, D. (Eds.), *The Molecular Basis of Cell-Cell Interaction. Birth Defects: Original Article Series, Vol. XIV*. New York, Alan R. Liss, Inc., pp. 235-246, 1978.
11. Strominger, J.L., Ferguson, W., Fuks, A., Kaufman, J., Orr, H., Parham, P., Robb, R., Terhorst, C., Giphart, M., & Mann, D. Isolation and structure of HLA antigens. In: Clarkson, B. (Ed.), *Differentiation of Normal and Neoplastic Hematopoietic Cells*. New York, Cold Spring Harbor Press, pp. 467-478, 1978.
12. Stingl, G., Katz, S.I., Shevach, E.M., Clement, L., Green, I., & Mann, D.L. Immunogenetical markers on epidermal cells. In: Thivolet, J. (Ed.), *Cutaneous Immunopathology, Vol. 80*. Paris, INSERM, pp. 173-180, 1978.
13. Chused, T.M., Moutsopoulos, H.M., Johnson, A.H., & Mann, D.L. Ia-antigens in Sjogren's syndrome. In: Rose, N. R., Bigazzi, P. E., and Warner, N. L. (Eds.), *Genetic Control of Autoimmune Disease*. New York, Elsevier North-Holland, pp. 342-345, 1978.
14. Mann, D.L. Leukemia associated antigens. In: Rose, N. (Ed.), *Immunodiagnosis of Cancer. Vol. 2*. New York, Marcel Dekker, Inc., pp. 874-886, 1979.
15. Sachs, D.H., El-Gamil, M., Kiszka, P., Lunney, J.K., Mann, D.L., Ozato, K., & Shinohara, N. Ia antigen cross-reactions between species. In: Bach, F., Bonavida, B., Vitetta, E., and Fox, C. F. (Eds.), *T and B Lymphocytes: Recognition and Function*. New York, Academic Press, pp. 15-29, 1979.
16. Mann, D.L. Evidence that more than one gene locus controls expression of human B-cell alloantigens. In: Bach, F., Bonavida, B., Vitetta, E., and C. F. (Eds.), *T and B Lymphocytes: Recognition and Function*. New York, Academic Press, pp. 31-35, 1979.
17. Broder, S., Muul, L., Durm, M., Goldman, C., Mann, D., & Waldmann, T. T-T interactions in the generation of human suppressor effector cells in vitro. In: Fauci, A. (Ed.), *In Vitro Induction and Measurements of Synthesis in Man*. New York, Academic Press, pp. 69-84, 1979.

18. Mann, D.L. & Murray, C. HLA alloantigens: Disease Associations and Biologic Significance. In: Pudenberg, H. and Jaffe, E. (Eds.), *Seminars in Hematology* Vol. 16. New York, Grunc and Stratton, pp. 293-308, 1979.
19. Rosenthal, A.S., Blake, J.T., Kahn, C.R., & Mann, D.L. Genetic control of immune response to insulin: a clinical study of adverse immunologic reactions to insulin. In: Braden, D. (Ed.), *Proc. of 2nd International Insulin Symposium*. Berlin, Walter deGruyter and Co., pp. 585-592, 1980.
20. Mann, D.L. The genetics of B cell alloantigens. In: Resifeld, R. (Ed.), *Current Trends in Histocompatibility*. New York, Plenum Press, pp. 199-207, 1981.
21. Strominger, J.L., Engelhard, V.H., Fuks, A., Guild, B.C., Hyafil, F., Kaufman, J.F., Korman, A.J., Kastuk, T.G., Krangel, M.S., Lancet, D., Loepz de Cistro, J.A., Mann, D.L., Orr, H.T., Parham, P., Parker, K.C., Pleogh, H.L., Prober, J.S., Robb, R.J., & Shackelford, D.A. The biochemical analysis of products of the major histocompatibility complex. In: Dorf, M. E. (Ed.), *The Roles of the Major Histocompatibility Complex in Immunology*. New York, Garland Press, pp. 115-171, 1981.
22. Murray, C. & Mann, D.L. B-lymphocyte isolation for HLA-DRW typing. *AACHT Tissue Typing Manual*. New York, AACHT, pp. 106-111, 1981.
23. Haynes, B.F., Hemler, M.E., Mann, D.L., Eisenbarth, G.S., Strominger, J.L., & Fauci, A.S. Characterization of a monoclonal antibody which binds to human monocytes. In: Forster, O. and Landy, M. (Eds.), *Heterogeneity of Mononuclear Phagocytes*. London and New York, Academic Press, pp. 53-59, 1981.
24. Mann, D.L., Rosenthal, A.S., Kahn, R., Johnson, A.H., & Mendell, N. A study of HLA alloantigen frequencies in insulin allergic and non-allergic diabetics. In: Keck, K. and Erb, P. (Eds.), *Basic and Clinical Aspects of Immunity to Insulin*. Berlin, Walter de Gruyter and Co., pp. 275-284, 1981.
25. Broder, S., Uchiyama, T., Muul, L., Muchmore, A., Blaise, R.M., & Mann, D.L. Activation of regulatory cells by antibodies to human Ia-like antigens. In: Fauci, A. and Bellicux, R. (Eds.), *Human B-cell Function, Activation, and Immunoregulation*. New York, Raven Press, pp. 289-297, 1982.
26. Gerber, L.-H., Murray, C.L., Perlman, S.G., Mann, D.L., Decker, J.L., Barth, W.F., & Nigra, T.P. Human lymphocyte antigens characterizing psoriatic arthritis. In: Farber, E. M., Cox, A. J., Wall, L. and Jacobs, P. H. (Eds.), *Psoriasis*. New York, Grune and Stratton, pp. 289-291, 1982.
27. Blattner, W.A., Greene, M.-H., Goedert, J.J., & Mann, D.L. Interdisciplinary studies in the evaluation of persons at high risk of cancer. In: Harris, C. C. and Autrup, H. A. (Eds.), *Human Carcinogenesis*. New York, Academic Press, pp. 913-939, 1983.
28. Reitz, M.S., Mann, D., Clarke, M.F., Kalyanaraman, V.S., Robert-Guroff, M., Popovic, M., & Gallo, R.C. Presence of HTLV in a subset of T cells from an infected patient: some immunochemical properties. In: Neth, A., Gallo, R., Greaves, T., Moore, G., and Winkler, A. (Eds.), *Hematology and Blood Transfusion*, Vol. 28. Berlin, Springer-Verlag, pp. 459-461, 1983.
29. Reitz, M.S., Mann, D., Clarke, M.F., Kalyanaraman, V.S., Robert-Guroff, M., Popovic, M. & Gallo, R.C. Presence of HTLV in a subset of T cells from an infected patient: some immunochemical properties of the infected cells. In: Neth, A., Gallo, R., Greaves, T., Moore, G., and Winkler, A. (Eds.), *Hematology and Blood Transfusion. Modern Trends in Human Leukemia V*, Vol. 28.

Heidelberg, Springer-Verlag, pp. 459-461, 1983.

30. Szein, M., Steeg, P., Oppenheim, J.J., Stiehm, R., Mann, D.L., & Blaes, M. Modulation of human cord blood monocyte DR antigen expression in vitro by lymphokines and interferon. In: Oppenheim, J. J. and Cohen, S. (Eds.), Interleukins, Lymphokines, and Cytokines. New York, Academic Press, pp. 299-305, 1983.
31. Rosenthal, A.S., Mann, D.L., & Kahn, C.R. Genetic control of the immune response to insulin in man and animal. In: Gupta, S. (Ed.), Immunology of Clinical and Experimental Diabetes. New York, Plenum Press, pp. 51-71, 1984.
32. Popovic, M., Kalyanaraman, V.S., Mann, D.L., Richardson, E., Sarin, P.S., & Gallo, R.C. Infection and transformation of T cells by human T-cell leukemia/lymphoma virus of subgroups I and II (HTLV-I, HTLV-II). In: Gallo, R. C., Essex, M. E., and Gross, L. (Eds.), Human T-Cell Leukemia/Lymphoma Viruses. New York, Cold Spring Harbor Laboratory Press, pp. 217-227, 1984.
33. Reitz, M.S., Jr., Clarke, M.F., Mann, D.L., & Gallo, R.C. Human T-cell leukemia/lymphoma virus and Class-I major histocompatibility antigens. In: Gallo, R. C., Essex, M. E., and Gross, L. (Eds.), Human T-Cell Leukemia/Lymphoma Viruses. New York, Cold Spring Harbor Laboratory Press, pp. 181-187, 1984.
34. Harris, C.C., Vahakangas, K., Autrup, H., Trivers, G.E., Shamsuddin, A.K.M., Trump, B.F., Boman, B.M., & Mann, D.L. Biochemical and molecular epidemiology of human cancer risk. In: Scarpelli, D., Craighead, J., and Kaufman, N. (Eds.), Pathologist and the Environment. Baltimore, Williams and Wilkins, pp. 140-167, 1985.
35. Blattner, W.A., Clark, J.W., Gibbs, W. N., Williams, C.K.O., Nomura, A., Mann, D., Saxinger, C., Robert-Guroff, M., & Gallo, R.C. HTLV: Epidemiology and Relationship to Disease. In: Miwa, M., Sugano, H., Sugimura, T., and Weiss, R. A. (Eds.), Retroviruses in Human Lymphoma/Leukemia. Tokyo, Sci. Soc. Press, Tokyo/VNU Science Press, pp. 93-108, 1985.
36. Yoakum, G.H., Korba, B.E., Boupas, D.C., Mann, D.L., & Harris, C.C. The molecular biology of human hepatitis B virus infection UCLA symposium on molecular and cellular biology. In: Harris, C. C. (Ed.), Biochemical and Molecular Epidemiology of Cancer. New York, Alan R. Liss, Inc., pp. 271-282, 1986.
37. Masui, T., Lechner, J.F., Mark, G.E., Pfeiffer, A-M. A., Miyashita, M., Yoakum, G.H., Willey, J.C., Mann, D.L., & Harris, C.C. Growth and differentiation programs of normal and transformed bronchial epithelial cells. In: Colburn, N. H., Moses, H. L., and Stanbridge, E. J. (Eds.), UCLA Symposium on Molecular and Cellular Biology, Vol. 32. New York, Alan R. Liss, Inc., pp. 191-202, 1987.
38. Weston, A., Trivers, G., Vahakangas, K., Newman, M., Rowe, M., Mann, D. & Harris, C.C. Detection of carcinogen DNA adducts in human cells and antibodies to these adducts in human sera. In: Homburger, F. (Ed.), Progress in Experimental Tumor Research. Basel, S. Karger, pp. 76-85, 1987.
39. Weston, A., Newman, M., Vahakangas, K., Rowe, M., Mann, D.L., & Harris, C.C. Measurement of carcinogen-macromolecular adducts and serum antibodies recognizing DNA-adducts in biological specimens from people exposed to chemical carcinogens. In: Sandhu, S. S., Claxton, L. D., DeMarini, D. M., Mass, M. J., Moore, M. M., and Mumford, J. L. (Eds.), Short-term Bioassays in the Analysis of Complex Environmental Mixtures V. New York, Plenum Press, pp. 91-102, 1987.

40. Mann, D.L. Immunogenetics of Sjogren's syndrome. In: Talal, N., Moutsopoulos, H. M., and Kassen, S. S. (Eds.), *Sjogren's Syndrome*. Berlin, Springer-Verlag, pp. 235-243, 1987.
41. Weston, A., Willey, J.C., Newman, M., Trivers, G.E., Haugen, A., Manchester, D., Choi, J.S., Krontiris, T., Light, B., Mann, D., & Harris, C.C. Application of biochemical and molecular techniques to the epidemiology of human lung cancer. In: Miners, J. O., Birkett, D. J., Drew, R., May, B., and McManus, M. (Eds.), *Microsomes and Drug Oxidations*. London, Taylor and Frances, Ltd., pp. 380-391, 1987.
42. Mann, D.L., Gartner, S., LeSane, F., Blattner, W.A., & Popovic, M. Cell surface major histocompatibility complex class II antigen expression is altered by HIV binding and infection. In: Bolognesi, D. (Ed.), *Human Retroviruses, Cancer and AIDS Approaches to Prevention and Therapy*. New York, Alan R. Liss, Inc., pp. 123-132, 1988.
43. Mark, G.E., Pfeifer, A., Mann, D.L., Harris, C.C., Berman, R., & Pert, C.B. *raf* protooncogene expression in neural and immune tissue. In: Bridge, T. P., Mirsky, A. F., and Goodwin, S. K. (Eds.), *Psychological, Neuropsychiatric, and Substance Abuse Aspects of AIDS*. New York, Raven Press, pp. 45-55, 1988.
44. Weston, A., Willey, J.C., Manchester, D.K., Wilson, V.L., Brooks, B.R., Choi, J.-S., Poirer, M.C., Trivers, G., Newman, M.J., Mann, D.L., & Harris, C.C. Dosimeters of human exposure to carcinogens: polycyclic aromatic hydrocarbon-macromolecular adducts. In: Bartsch, H., Hemminki, K., and O'Neill, I. K. (Eds.), *Methods for Detecting DNA Damaging Agents in Humans: Applications in Cancer Epidemiology and Prevention*. Lyon, International Agency for Research on Cancer, pp. 181-189, 1988.
45. Mann, D.L. HLA and HIV-1 infection. In: Dagleish, A. and Weiss, R. (Eds.). *HIV and the New Viruses*, 2nd Ed. New York: Academic Press, pp. 155-171, 1999.